

**MEMORANDUM FOR RECORD:**

**SUBJECT** : Visit to Haller, Raymond and Brown, Inc.  
on 12 February 1959

**ATTENDEES** : Messrs.

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1. A suggestion was made how to mount the second Ampex 814 tape recorder on the A frame and steps were taken to modify the System to accommodate the two (2) tape recorders.

2.  stated that 400 cycle signals did not interfere with normal operation of the HRB 188 video processing unit. The 400 cycle signal would lower the system sensitivity but will not generate a false alarm. Signals from 500 cycles to 3 kc at 500 cycles multiples and in addition to another signal at 250 kc will generate a false alarm.

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3. A complete System VII test will be performed at HRB before the unit is shipped.

4. Progress of the telemetry transmitter at Edwards is progressing satisfactorily. Arrangements were made for  to hand-carry the HRB telemetry simulator back with him.

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5. Flight test of the System was discussed. The System will be checked out in the following manner:

- 5.1. Bench test
- 5.2. Flight line (installed in A/C)
- 5.3. Flight over field
- 5.4. Flight test at altitude and range (65,000 ft.  
600 nautical mile range)

6. A demonstration was given with a bench lash-up of part of System VII. Turn on sensitivity of better than minus 100 dbm was

25 YEAR RE-REVIEW

**SECRET**

observed with a dynamic range better than 40 db.

7. HRB still does not have a temperature and/or pressure chamber. They have not temperature cycled their sync extractor. They were able to adjust the unit at 70° F and bring the temperature up about 15° F before failure. (The unit will be thermostatically controlled in the A/C).

8. The sync extractor and simulator are quite critical units and their adjustments are very touchy. It also appears, according to HRB, that the simulator has to be readjusted to operate with a specific extractor.

9. HRB sync extractor borrowed from Commo, was tested after readjusting both the simulator and the extractor. The unit functioned normally in all respects. The same test setup at JPL was used.

10. The System is on schedule and should be ready for shipment on 2 March 1959.

11. [ ] is taking steps to borrow a Collins' 1 kv signal wideband transmitter receiver. This will be fitted in the A/C in flight test to determine the feasibility of using this equipment for a voice alert turn-on procedure. It will probably be tested to a range of 1200 nautical miles.

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ELINT Staff

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## Distribution:

- Copy 1 - System VII
- 2 - Project Chrono
- ✓ 3 - [ ]

ESO: [ ] ang (10 Mar 59)

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